

# MASS TIMBER ARCHITECTURE IN THE TROPICS

## INTERNATIONAL SEMINAR 2023. CHALLENGES AND POSSIBILITIES.



20<sup>th</sup>, 21<sup>st</sup> OCTOBER 2023

Two days will be dedicated to mass timber construction for both aspiring professionals and experts. Including a comprehensive program of speeches and case studies to discover, keep up with all the latest developments and unique networking opportunities.

### TARGET

This seminar is for designers, architects, structural engineers and timber construction enthusiasts seeking to create and build significant relationships within the sector. A chance to stay updated with the latest construction trends and technologies on the market.

### CONTENT AND NEW FOCUS

The timber sector is in constant and fast growth. There are always new technical solutions to respond to the market requests. In the seminar we will concentrate on 3 different sessions: vision and challenges, construction and finance, envelopes and connections. After each session there will be a discussion among the speakers and participants of the seminar. The main topics are going to be the challenges and potential of Mass Engineered Timber (MET) in tropical regions, the management of building sites and design challenges, the use of innovative timber structural materials, the innovative connections, the durability, waterproofing and airtightness. Finally, we will talk about the financial advantages of timber and the sustainability. There will be plenty of opportunities to address and discuss the future of timber construction as well as a tour of real timber building sites in the area with the transport and organization included in the price (participation is not mandatory, confirmed only if there are enough subscriptions)

| CODE    | LANG | DATE                                           | LOCATION                                                                                                           | PRICE                                                                                                                                                                                                                                              |
|---------|------|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RFINGEN | EN   | 20 <sup>th</sup> , 21 <sup>st</sup><br>October | LT421, SDE3, Department of Architecture,<br>College of Design and Engineering,<br>National University of Singapore | <b>400 S\$:</b> SEMINAR (incl. coffee break, 1 lunch)<br><b>600 S\$:</b> SEMINAR + CONSTRUCTION SITES VISIT<br>(incl. 2 coffee breaks, 1 lunch, transport for the second day)<br><b>60 S\$:</b> SEMINAR FOR STUDENTS (incl. coffee break, 1 lunch) |

REGISTRATION : <https://www.rothoblaas.com/school>

Hosted by



Department of Architecture  
College of Design and Engineering

20<sup>TH</sup>, 21 OCTOBER 2023

DAY 1

LT421, SDE3, Department of Architecture,  
College of Design and Engineering, National University of Singapore,  
4 Architecture Drive, 117566, Singapore.



09:00 - 09:30

CHECK IN, WELCOME COFFEE AND INTRODUCTION  
OF THE COURSE

09:30 - 10:15

**NUS AS A LIVING LAB FOR  
SUSTAINABLE DEVELOPMENT**  
Prof. Lam Khee Poh - Provost's  
Chair Professor of Architecture and  
the Built Environment at National  
University of Singapore



10:15 - 11:00

**RESOURCES, PROCESSES, ASSEMBLY  
METHODOLOGIES AND TECHNOLO-  
GIES TO DRIVE CONTINUOUS  
IMPROVEMENT WITH ZERO OR  
LOW IMPACT**  
Karl-Heinz Weiss - Weiss Insights Pty Ltd



11:00 - 11:45 (ONLINE)

**TIMBER STRUCTURES NEED  
A COMMON APPROACH**  
**Current and Future Development in EU**  
Prof. Dr. Eng. Stefan Winter - Chair,  
Timber Structures and Building  
Construction, School of Engineering  
and Design, Technical University of Munich



11:45 - 12:30

**CHALLENGES AND POSSIBILITIES  
OF MASS TIMBER ARCHITECTURE  
IN THE TROPICS**  
Prof. Ar. Shinya OKUDA - Founding  
Director, SkyTimber: Tropical  
Renewable Architecture Design  
Lab. DOA, CDE, NUS.



12:30 - 13:30 Lunch (Catering)

13:30 - 14:15

**THE DESIGN, MANAGEMENT  
OF BUILDING SITES AND HANDLING  
OF CLT PANELS ON SITE**  
Eng. David Kingham - Steeltech



14:15 - 15:00

**THE FINANCIAL ADVANTAGE OF  
MASS TIMBER STRUCTURES OF  
COMMERCIAL BUILDINGS**  
Quick return of investment, speed of  
construction and long term durability  
Kevin Hill - Venturer Timberwork



15:00 - 15:30 Afternoon tea and networking

15:30 - 16:15

**WATERPROOFING AND AIR-TIGHTNESS  
OF TIMBER BUILDINGS**  
Eng. Matteo Andreottola - Rothoblaas



16:15 - 17:00

**FROM STANDARD TO INNOVATIVE  
CONNECTIONS IN MASS TIMBER  
STRUCTURES**  
Challenges of timber structures design  
and connections details  
PH.D Eng. Ermanno Acler



17:00 - 17:15

**CLOSING SPEECH**  
Milos Slavik - Rothoblaas



DAY 2

(Image: BCA Academy, Singapore)



8:00 am  
Marina Bay Sands



8:30 am - 9:30 am  
BCA ACADEMY



10:00 am - 11:00 am  
SPRINT PLOT 1



11:30 am - 12:30 pm  
NTU



13:00 pm  
Marina Bay Sands



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